

**Taxonomic Status of *Phyllodium elegans* (Lour.) Desv.
var. *javanicum* Schindl. (Leguminosae-Papilionoideae: Desmodieae)**

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Phyllodium elegans (Lour.) Desv. var. *javanicum* Schindl. was regarded as identical with var. *elegans*, but is recognized as a distinct variety. It was described from Java and Madura, but is found also in Thailand. A key to both varieties and a related species, and a distribution map of both variety are prepared.

Phyllodium elegans (Lour.) Desv. is distributed in Indo-China, South China and disjunctively in Java, and is most close to *P. pulchellum* (L.) Desv. distributed widely in India, SE. Asia, E. Asia and N. Australia. These two species are common in having small flowers smaller than those of other members of the genus and primary bracts similar to the lateral leaflets against dissimilar in other species of *Phyllodium*. Differences between these two species are clear as shown in the key below.

Phyllodium elegans is recorded first from Java by Benthams (1852) based on a specimen collected by Junghuhn, although already Thunberg collected a specimen of the species in 1775 or 1777 (*Hedysarum 2 pulchellum*, Herb. Thunb. 17255, UPS) (Fig. 1). Considerable variation was noted in this species by Schindler (1924) in relation to the disjunct distribution. The Javanese plants were regarded as a variety of *Phyllodium elegans*, i. e., var. *javanicum* Schindl. However, the variety has not been recognized as valid by van Meeuwen (1962), Ohashi (1973), and Dy Phon (1994).

After examining many specimens of the species from Java, Indo-China, and China in

fields and in herbaria, variation ranges of *P. elegans* become clearer and I have to change my previous recognition of this variety. It differs from *P. elegans* var. *elegans* in leaves, primary bracts and pedicels as shown in the key below.

**Key to *Phyllodium elegans* and
*P. pulchellum***

1. Pods usually 2-jointed, sparsely pubescent on lateral surfaces, reticulate-veined. Stipules narrowly triangular, 6–8 mm long. Lowest calyx-lobe almost equal to the lateral one. Bracteal leaflets orbicular, uniformly pubescent inside *P. pulchellum*
1. Pods usually 3–4-jointed; stipules broadly triangular, 3–5 mm long. Lowest calyx-lobe longer than the lateral one. Bracteal leaflets orbicular to broadly elliptic or broadly ovate, densely pubescent on nerves inside 2. *P. elegans*
2. Leaves covered with grayish hairs below; terminal leaflets broadly ovate, rounded at base, with distinct lateral and third (between lateral nerves) nerves beneath; fruiting pedicels 4–5 mm long, less pubescent than the species below; primary leafy bracts



Fig. 1. *Phyllodium elegans* (Lour.) Desv. var. *javanicum* Schindl. collected by Thunberg (= *Hedysarum 2 pulchellum*, Herb. Thunb. 17255, UPS).

wrinkled, with conspicuous third nerves ..

..... var. *javanicum*

2. Leaves covered with yellowish hairs below; terminal leaflets ovate to elliptic, cuneate to obtuse at base, with indistinct third nerves beneath; fruiting pedicels 3–4 mm long; pubescent; primary leafy bracts not wrinkled, with indistinct third nerve ..

..... var. *elegans*

In distribution, *Phyllodium elegans* var. *javanicum* is found also in Thailand where var. *elegans* occurs, but var. *elegans* is not found in Java. *Phyllodium elegans* var. *javanicum* is, therefore, not endemic to Java.

***Phyllodium elegans* (Lour.) Desv.** in Mém. Soc. Linn. Paris **4**: 324 (1825); Schindl. in Repert. Spec. Nov. Regni Veg. **20**: 270 (1924), incl. var. *typicum* Schindl.; Merr. in Trans. Am. Philos. Soc. n. s. **24**(2): 202 (1935); Ohashi in Ginkgoana **1**: 269 (1973); Dy Phon in Fl. Camb. Laos Viet. **27**: 37 (1994); Lock & Heald, Legum. Indo-China 76 (1994); Ohashi in J. Jpn. Bot. **70**: 115 (1995); Yang & Huang in Fl. Reip. Pop. Sin. **41**: 12 (1995).

Hedysarum elegans Lour., Fl. Cochinch. **2**: 450 (1790). **Type**: China. Canton-Macao. Gaudichaud 147 (P-Neotype designated by Dy Phon 1994).

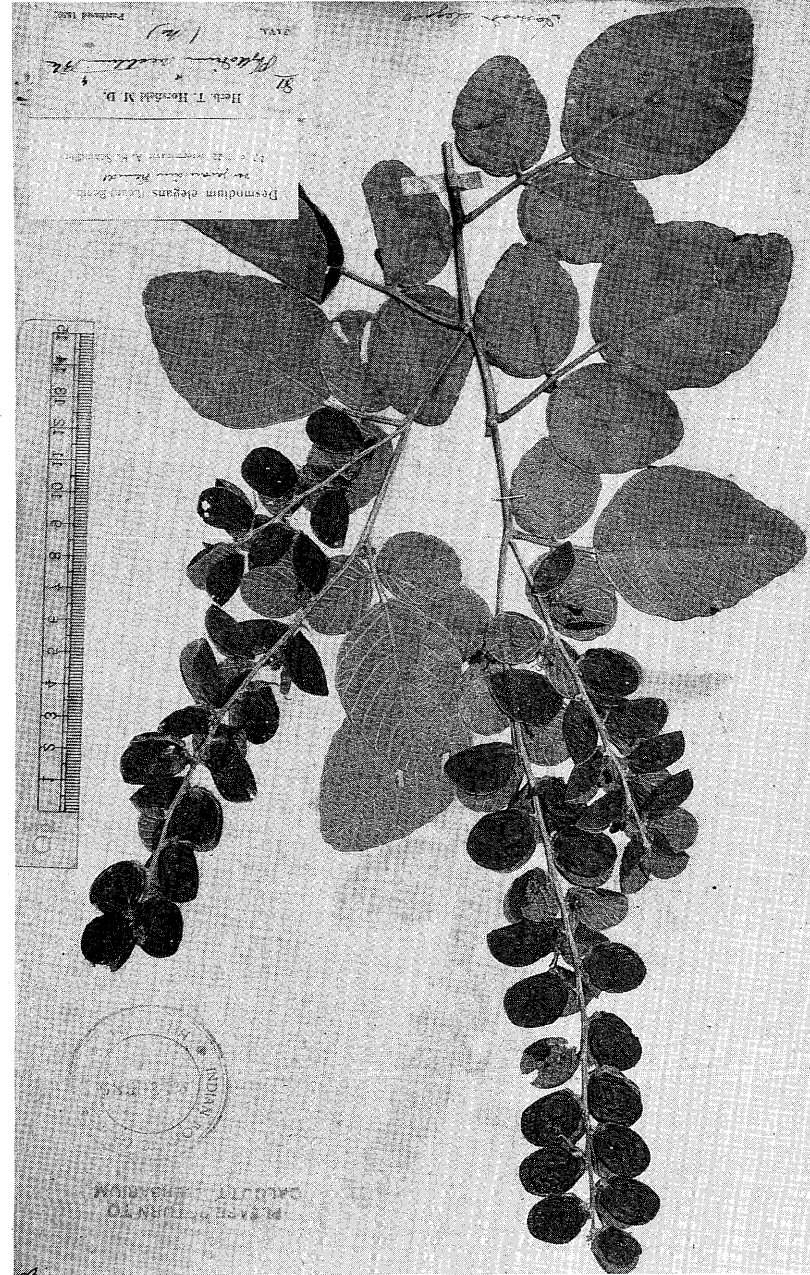


Fig. 2. Probable syntype of *Phyllodium elegans* (Lour.) Desv. var. *javanicum* Schindl. Horsfield 81 (CAL.).

Dicerma elegans (Lour.) DC., Prodr. 2: 339 (1825).
Desmodium elegans (Lour.) Benth., Fl. Hongk. 83 (1861), non DC. (1825), nec Reinwardtia 6: 247 (1962).
Desmodium blandum van Meeuwen in Schlecht. (1838); Craib, Fl. Siam. Enum. 1: 406 (1928).

var. **elegans**

Distribution: Indo-China (Cambodia, Laos, Thailand, Vietnam) and South China (Fujian, Guangdong, Guangxi, Hainan, Hongkong).

var. **javanicum** Schindl. in Repert. Spec. Nov. Regni Veg. **20**: 270 (1924).

Phyllodium vestitum Miq., non DC., Fl. Ind. Bat. **1**, 1: 261 (1855), excl. syn. cit.

Desmodium blandum van Meeuwen in Reinwardtia **6**: 247 (1962), p.p., incl. cit. specim. Java.

P. elegans (Lour.) Desv.: Ohashi in Ginkgoana **1**: 269 (1973), p.p., incl. var. *javanicum* Schindl.

Specimens examined:

Java. Thunberg (UPS Herb. Thunb. 17255); Horsfield 81 (CAL, GH, K, L); Miquel (K); Tjisaroa. Hj. Möller 43 (A); Junghuhn 117 (K); cult. in Hort. Bot. Bogor. Kurz 2262 (CAL-syntype) & Hallier D381a (BO-isosyntype); Semarang. Backer 16450 (BO); Batavia. Backer 34572 (BO), Backer 31120 (BO), Steenis 5338 (BO); Tji Mapang. Backer 23883 (BO); Poernakarta. Backer 13811 (BO); Lahaie 2108 (P); Hasskarl

3944 (L).

Madoera. unknown collector 19239 (BO, L), 19937 (BO), 20569 (BO), 20757 (BO).

Thailand. Northern: Doi Pha Dam, between Hang Dong and Bo Luang, 18°17'N, 98°30'E, alt. 900 m. 5 July 1965. Kai Larsen et al. 2161 (P).

Distribution: Malesia (Java, Madura) and Thailand.

Schindler (1924) did not cite herbarium with the syntype specimens of *P. elegans* var. *javanicum* Schindl., and I have not been able to find them. I could examine Horsfield 81 in CAL on which Schindler gave an annotation label on 17 October 1922 (Fig. 2). However, in the original description he cited a specimen, "Java; ohne Ort (Horsfield, no. 80!)", not 81. Probably Horsfield no. 80 cited by Schindler is a mistake of Horsfield 81. Junghuhn 117, the first recorded specimen from Java by Bentham (1852), which is referable to var. *javanicum*, was not cited in the original description.

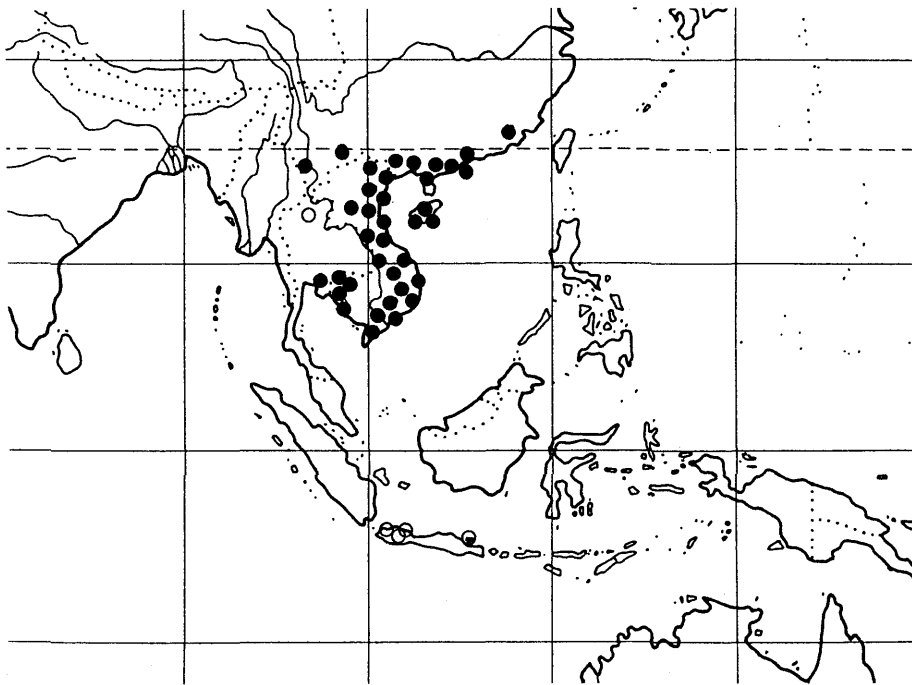


Fig. 3. Distribution map of *Phyllodium elegans* (Lour.) Desv. ● var. *elegans*, ○ var. *javanicum*.

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大橋広好：マメ科 *Phyllodium elegans* var. *javanicum* の分類学上の位置

マメ科ウチワツナギ属の *Phyllodium elegans* (Lour.) Desv. はタイ、カンボジア、ラオス、ベトナム、中国南部および飛び離れてジャワに分布する種で、ウチワツナギ *Phyllodium pulchellum* (L.) Desv. に近縁である。Schindler (1924) はジャワのものを変種として *P. elegans* var. *javanicum* Shindl. と命名したが、この変種はその後、独立の分類群として認められていなかった。しかし、*P. elegans* var. *elegans* と var. *javanicum* の間にはこれまで分か

っていた違いの他にも異なる形質のあることが明らかとなった。区別点を本文中の検索表に示した。また、var. *javanicum* はタイからも発見された。タイでは var. *elegans* が東南植物地区 SE floristic region から記録されており (Craib 1928), var. *javanicum* は北植物地区 N floristic region であるから、タイにおける両分類群は地理的に隔離されている可能性がある。

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